

From Port to Plant: Nextracker's 'First-Mile' Leap Toward Clean Logistics

Photo: Forum Mobility

Project Overview

New routes to low-emissions project development are opening up for the solar industry – and Nextracker is leading the way. By pairing their latest emissions-reduction product platforms with logistics innovators, the company is reshaping how solar projects are being built.

In mid-2024, Nextracker launched its Low-Carbon Tracker, a new product that enhances the efficacy of the market-leading NX Horizon™. This new single-axis tracking system offers unmatched supply chain transparency and features recycled steel components, such as torque tubes, with significantly reduced embedded carbon.

Nextracker is also tackling reducing emissions associated with transporting solar components by joining forces with heavy-duty EV charging provider **Forum Mobility**, drayage fleet operator **Hight Logistics**, logistics provider **Ryder**, and solar developer, **rPlus Energies**.

The first projects to deploy this suite of low-emissions products and services are already proving the positive impact and effectiveness of Nextracker's industry-leading strategy.

Project Facts

524 shipping containers
of Nextracker components utilized
zero emissions transportation, totaling
10,000 tons of trackers
over year span

A total of **12,584**
emissions-free miles were traveled

2,288 of diesel gallons
were avoided

37,000 KgCO₂
emissions reductions

Collaborators





Photo: Forum Mobility

Challenge

Despite covering short distances, drayage is a major contributor to carbon emissions from transportation. As the “first mile” in the freight journey, it involves unloading shipping containers at ports and transporting goods to nearby warehouses and logistics hubs.

Drayage typically relies on heavy-duty Class 7 and 8 diesel trucks, which emit elevated levels of greenhouse gases, nitrogen oxides, sulfur oxides, particulate matter, and volatile organic compounds. While progress has been made, the ultimate solution is zero emissions.

At large ports like California’s Port of Long Beach, where more than \$100 billion in sea container trade moves annually, drayage activity is both extensive and impactful. Located just two miles from Downtown Long Beach, the pollution resulting from drayage is detrimental to local residents and port workers alike. Particularly affected are low-income neighborhoods and communities of color, as these groups often live closest to freight corridors and logistics hubs, placing them at higher risk for respiratory and cardiovascular health issues linked to air pollution.

Nexttracker Solution

Nexttracker is committed to addressing air pollution and greenhouse gas emissions across every part of its operations – not because it is easy, but because it’s essential. To reduce the environmental impact of traditional drayage, the company teamed up with Forum Mobility, Hight Logistics, and Ryder at the Port of Long Beach.

Hight Logistics provides drayage and warehousing services for the port and has deployed Class 8 battery-electric trucks throughout the high-density corridor. To date, the company has reduced emissions by more than 500 tons – with Nexttracker’s shipments accounting for close to 10% of that reduction.

Forum Mobility, meanwhile, is building the charging infrastructure needed to power the transition. In December 2024, it opened the FM Harbor facility at the Port of Long Beach, capable of charging over 200 electric drayage trucks per day, making it the largest facility of its kind in the U.S.

Through this collaboration, Nexttracker is proving the viability of zero-emissions drayage, measuring the results as part of its Scope 3 emissions reporting, and making that data available to solar project developers and customers.

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Nexttracker and rPlus Energies are successful and admired because they lead instead of follow. The future of freight is zero emissions, and we appreciate their leadership in contracting with Forum Mobility’s customer fleets to deliver their goods, but without the emissions.”

– **Matt LeDucq**, CEO,
Forum Mobility



“

Our warehouse is only ten miles from the port. Most of our customers are within 70 miles of the port. So, these electric trucks can really do the job. The drivers love the trucks, they’re cleaner, easier to manage, and they’re safe.”

– **Rudy Diaz**, President/CEO,
Hight Logistics



Project Spotlight: Green River Energy Center

Name of project	Green River Energy Center
Location	Emery County, Utah
Project Size	400 MW Solar + 400 MW-4hr BESS
Developer	rPlus Energies
EPC	Sundt



Photo: rPlus Energies

453 containers were transported between August 2024 and January 2025 using **electric drayage trucks**

Project Details: Utility-scale solar projects in eight U.S. states have already benefited from the zero emissions transportation solution pioneered by Nextracker and its partners.

One standout example is the 400 MW Green River Energy Center in Emery County, Utah. For this project, 60% of the 755 shipping containers needed, a total of 453 containers, were transported between August 2024 and January 2025 using electric drayage trucks from the Port of Long Beach to the Hight Logistics transloading facility.

Developed by rPlus Energies and built by Sundt, Green River is the largest solar-plus-storage project in Utah, co-locating 400 MW of solar with 1,600 MWh of battery storage. A landmark for firm clean energy on the PacifiCorp network, it also represents a new standard for sustainable logistics.

“ Supporting communities is at the heart of our work. The partnership between Forum Mobility, Hight Logistics, and our tracking provider, Nextracker, enables us to make a positive impact not only in the Mountain West, where we are developing and delivering power, but also in the communities along the domestic routes within our supply chain.”

– Luigi Resta, President & CEO of rPlus Energies



Project Benefits

Meeting the challenge of climate change will require rapid deployment of high-performance, utility-scale solar projects. As the solar industry continues to scale, there will be increasing emphasis on decarbonizing every stage of the supply chain.

Nextracker is proud to lead on both fronts: enabling clean electricity generation while also addressing the embedded emissions of its own operations. By utilizing innovative logistics solutions and collaborating with forward-thinking partners, Nextracker is helping to decarbonize not just energy production, but the journey it takes to get to its destination.

As zero-emissions freight solutions scale, Nextracker’s early adoption offers a replicable blueprint for a more sustainable solar value chain: proving that cleaner transport is possible, from port to project site.



Photo: Forum Mobility